

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN DIEGO REGION

ERRATA SHEET FOR TENTATIVE ORDER NO. R9-2010-0032, CITY OF ESCONDIDO HALE AVENUE RESOURCE RECOVERY FACILITY (HARRF)

The following changes have been made to Tentative Order No. R9-2010-0032. Text changes are shown in underline/~~strikethrough~~ format.

No.	Section	Revision																														
1	General	<i>Typographical changes have been made throughout the document to correct punctuation, spelling, formatting, acronym definitions, and consistency. These administrative changes are not significant.</i>																														
2	Finding II.F	<p>F. California Environmental Quality Act. <u>This project involves requirements for existing waste treatment facilities. As such, this project is categorically exempt from the requirements of the California Environmental Quality Act (CEQA) as provided by Section 15301, and in compliance with Section 15300.2, of California Code of Regulations Title 14. In addition</u> the Discharger certified a final Environmental Impact Report for this project in June 1992 in accordance with the California Environmental Quality Act CEQA (Public Resources Code section 21000, et seq.). The project identified no significant groundwater impact.</p>																														
3	IV.A.1. Table 6. Effluent Limitations	<p>1. Final Effluent Limitations</p> <p>Table 6. Effluent Limitations</p> <table border="1" data-bbox="418 1180 1448 1900"> <thead> <tr> <th data-bbox="418 1180 1042 1276">Constituent</th> <th data-bbox="1042 1180 1448 1276">12-Month Average¹ <u>(milligrams per liter (mg/L) or as noted)</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="418 1276 1042 1318">Chlorine Residual</td> <td data-bbox="1042 1276 1448 1318">See Specification A.2.a</td> </tr> <tr> <td data-bbox="418 1318 1042 1360">Chlorine-Contact Time (CT)</td> <td data-bbox="1042 1318 1448 1360">See Specification A.2.a</td> </tr> <tr> <td data-bbox="418 1360 1042 1402">Total Coliform Bacteria^c</td> <td data-bbox="1042 1360 1448 1402">See Specification A.2.b</td> </tr> <tr> <td data-bbox="418 1402 1042 1444">Turbidity (TURB)</td> <td data-bbox="1042 1402 1448 1444">See Specification A.2.c</td> </tr> <tr> <td data-bbox="418 1444 1042 1486">Total Dissolved Solids (TDS)</td> <td data-bbox="1042 1444 1448 1486">1,000</td> </tr> <tr> <td data-bbox="418 1486 1042 1528">Chloride (Cl)</td> <td data-bbox="1042 1486 1448 1528">300</td> </tr> <tr> <td data-bbox="418 1528 1042 1570">Sulfate (SO₄)</td> <td data-bbox="1042 1528 1448 1570">350</td> </tr> <tr> <td data-bbox="418 1570 1042 1612">Percent Sodium (% Na)</td> <td data-bbox="1042 1570 1448 1612">60%</td> </tr> <tr> <td data-bbox="418 1612 1042 1654">Nitrate (NO₃)</td> <td data-bbox="1042 1612 1448 1654">10</td> </tr> <tr> <td data-bbox="418 1654 1042 1696">Iron (Fe)</td> <td data-bbox="1042 1654 1448 1696">0.50</td> </tr> <tr> <td data-bbox="418 1696 1042 1738">Manganese (Mn)</td> <td data-bbox="1042 1696 1448 1738">0.20</td> </tr> <tr> <td data-bbox="418 1738 1042 1780">Methylene Blue- Activated Substances (MBAS)</td> <td data-bbox="1042 1738 1448 1780">0.5</td> </tr> <tr> <td data-bbox="418 1780 1042 1822">Boron (B)</td> <td data-bbox="1042 1780 1448 1822">0.75</td> </tr> <tr> <td data-bbox="418 1822 1042 1864">Odor</td> <td data-bbox="1042 1822 1448 1864">N/A</td> </tr> </tbody> </table>	Constituent	12-Month Average ¹ <u>(milligrams per liter (mg/L) or as noted)</u>	Chlorine Residual	See Specification A.2.a	Chlorine-Contact Time (CT)	See Specification A.2.a	Total Coliform Bacteria ^c	See Specification A.2.b	Turbidity (TURB)	See Specification A.2.c	Total Dissolved Solids (TDS)	1,000	Chloride (Cl)	300	Sulfate (SO ₄)	350	Percent Sodium (% Na)	60%	Nitrate (NO₃)	10	Iron (Fe)	0.50	Manganese (Mn)	0.20	Methylene Blue- Activated Substances (MBAS)	0.5	Boron (B)	0.75	Odor	N/A
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4	IV.A.2. Title 22 Specifications	<p>2. Title 22 Specifications</p> <p>Recycled water effluent from the Facility shall meet the definition of “disinfected tertiary recycled water” in CCR Title 22 section 60301.230 and by reference “filtered wastewater” in section 60301.320. <u>These definitions are incorporated by reference, prospective</u> including future changes to the incorporated provisions as the changes take effect.</p>																																
5	V.A.6.d. Standard Provisions	<p>d. Failure of UV equipment <u>disinfection system</u>; and</p>																																
6	V.C.1.d. Special Provisions	<p>d. <u>Within 180 days of adoption of the Order, the Discharger must submit to the San Diego Water Board a certification that the operations manual includes the following information.</u> A copy of the facility operations manual shall be maintained at the Facility and shall be available to operation personnel and San Diego Water Board staff at all times. The following portions of the operations manual shall be posted at the treatment plant as a quick reference for treatment plant operators:</p>																																
7	V.C.2.b. Recycled Water Use Provisions	<p>b. Within 180 days <u>1 year</u> of adoption of the Order, the Discharger must submit to the CDPH and the County DEH a certification that a Master Plan covering multiple reuse sites and/or any individual Plans and Specifications reports are compliant with this Order. The certification shall include any update to plans and specifications. The report shall include a detailed description of each reuse site identifying all of the information below:</p>																																
8	Attachment A,	<p>ATTACHMENT A – MAP (UPDATED)</p>																																

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~~c. Samples for total coliform bacteria shall be collected at least daily and at a time when wastewater characteristics are most demanding on the treatment facilities and disinfection procedures.~~

Table C-3. Effluent Monitoring RWS-002

Parameter	Units	Sample Type	Minimum Sampling Frequency ^{a,b}
Chlorine Residual	mg/L	Continuous	Continuous
Chlorine-Contact Time (CT)	mg-min/L	Calculated	Continuous
<u>Total Coliform Bacteria^c</u>	<u>MPN/100 mL</u>	<u>Grab</u>	<u>Daily when UV system operates</u>

~~c. Samples for total coliform bacteria shall be collected at least daily and at a time when wastewater characteristics are most demanding on the treatment facilities and disinfection procedures.~~

Table C-4. Effluent Monitoring RWS-003

Parameter	Units	Sample Type	Minimum Sampling Frequency ^{a,b}
UV dose	mWs/c m ²	Continuous	Continuous
<u>Total Coliform Bacteria^c</u>	<u>MPN/100 mL</u>	<u>Grab</u>	<u>Daily when UV system operates</u>

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11 Attachment C, IV.A.1. Table C-6, Receiving Water Monitoring Requirements

Table C-6. Receiving Water Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency
pH	pH units	Grab	Semiannually
Specific Conductance	umhos/cm	Grab	Semiannually
Total Dissolved Solids (TDS)	mg/L	Composite Grab	Semiannually
Chloride (Cl)	mg/L	Composite Grab	Semiannually
Sulfate (SO ₄)	mg/L	Composite Grab	Semiannually
Nitrate (NO ₃)	mg/L	Composite Grab	Semiannually
Total Nitrogen	mg/L	Composite Grab	Semiannually
Iron (Fe)	mg/L	Composite Grab	Semiannually
Manganese (Mn)	mg/L	Composite Grab	Semiannually
Boron (B)	mg/L	Composite Grab	Semiannually
Fluoride (F)	mg/L	Composite Grab	Semiannually
Sodium	mg/L	Composite Grab	Semiannually
Calcium	mg/L	Composite Grab	Semiannually
Potassium	mg/L	Composite Grab	Semiannually
Magnesium	mg/L	Composite Grab	Semiannually

12 Attachment C, V.A.3. Table C-7, Monitoring Periods and

Table C-7. Monitoring Periods and Reporting Schedule

Sampling Frequency	Monitoring Period	SMR Due Date
Continuous	All	Submit with quarterly SMR

	Reporting Schedule	<table border="1"> <tr> <td data-bbox="423 205 646 268">Daily</td> <td data-bbox="646 205 1089 268">Midnight through 11:59 PM<u>8:00 AM through 7:59 AM</u></td> <td data-bbox="1089 205 1521 268">Submit with quarterly SMR</td> </tr> <tr> <td data-bbox="423 268 646 405">Quarterly</td> <td data-bbox="646 268 1089 405">January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31</td> <td data-bbox="1089 268 1521 405">May 1 August 1 Nov 1 February 1</td> </tr> <tr> <td data-bbox="423 405 646 474">Semiannually</td> <td data-bbox="646 405 1089 474">January 1 through June 30 July 1 through December 31</td> <td data-bbox="1089 405 1521 474">August<u>September</u> 1 February<u>March</u> 1</td> </tr> <tr> <td data-bbox="423 474 646 541">Annually</td> <td data-bbox="646 474 1089 541">January 1 through December 31</td> <td data-bbox="1089 474 1521 541">February<u>March</u> 1</td> </tr> <tr> <td data-bbox="423 541 646 541">5 years</td> <td data-bbox="646 541 1089 541">5 year period</td> <td data-bbox="1089 541 1521 541">February<u>March</u> 1</td> </tr> </table>	Daily	Midnight through 11:59 PM <u>8:00 AM through 7:59 AM</u>	Submit with quarterly SMR	Quarterly	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31	May 1 August 1 Nov 1 February 1	Semiannually	January 1 through June 30 July 1 through December 31	August <u>September</u> 1 February <u>March</u> 1	Annually	January 1 through December 31	February <u>March</u> 1	5 years	5 year period	February <u>March</u> 1
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13	Attachment C, V.A.6.c	<p><u>c. The Discharger shall include historical data in either tabular or graphical format for parameters in section IV of this MRP. The data shall be summarized to clearly indicate trends in Receiving Groundwater monitoring locations.</u></p> <p>c.d. SMRs must be submitted to the San Diego Water Board, signed and...</p>															
14	Attachment C, V.C. Annual Recycled Water Summary	<p>C. Annual Recycled Water Summary</p> <p>The Regional Board is developing a standardized electronic form to promote consistent review and enforcement of recycled water facilities as well as establish trends on recycled water production, delivery, and beneficial reuse throughout the San Diego Region. The Regional Board will provide the standard form in Microsoft Excel format in which the Recycled Water Agency shall provide information summarizing annual recycled water quantity, quality, and beneficial reuse. This electronic form shall be completed and submitted electronically by February<u>March</u> 1 every year.</p>															
15	Table D-2, Historic Effluent Limitations and Monitoring Data	<p>Table D-2. Historic Effluent Limitations and Monitoring Data</p> <table border="1"> <thead> <tr> <th data-bbox="760 1266 1015 1329">Parameter</th> <th data-bbox="1015 1266 1170 1329">Units</th> </tr> </thead> <tbody> <tr> <td data-bbox="760 1329 1015 1381">...</td> <td data-bbox="1015 1329 1170 1381">...</td> </tr> <tr> <td data-bbox="760 1381 1015 1434">Nitrate (NO₃ as <u>N</u>)</td> <td data-bbox="1015 1381 1170 1434">mg/L</td> </tr> <tr> <td data-bbox="760 1434 1015 1486">...</td> <td data-bbox="1015 1434 1170 1486">...</td> </tr> </tbody> </table>	Parameter	Units	Nitrate (NO ₃ as <u>N</u>)	mg/L							
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16	Attachment D, IV.A. Rationale for Effluent Limitations	<p>The degradation in water quality is justified as consistent with the maximum benefit to the people of California because recycling reduces discharges to the ocean and replaces demand for imported water. Further, the degradation does not<u>is not expected to</u> result in water quality poorer than described in the Basin Plan and therefore will<u>is</u> not expected to unreasonably affect beneficial uses protected by the water quality objectives. The completed analysis makes the included basins low priorities for a Salt/Nutrient Management Plan, however, should the Discharger or other stakeholder complete a Salt/Nutrient Management Plan for the included basins, the Tentative Order may be modified accordingly. The Discharger recognizes that modeling uncertainties exist in the analysis pertaining to effluent quality,</p>															

		<p>groundwater quality data, groundwater recharge, and groundwater outflow that require confirmation groundwater monitoring and reporting.</p> <p><u>Historical data demonstrates that the nitrate concentration in the Receiving Groundwater in the Recycled Water Service Areas is above the water quality objectives. Recent recycled water use, however, has not further degraded groundwater quality. Nitrogen is a nutrient taken in by plants. Nitrogen concentration in applied irrigation water that percolates past the root zone is thereby reduced. Rules and Regulations for Recycled Water Use CC, DD, and EE (Attachment E) require recycled water be applied at agronomic rates to ensure that the application of recycled water does not contribute to the exceedances of the nitrate water quality objective in the receiving water. The uncertainty in calculating agronomic rates requires confirmation groundwater monitoring and reporting.</u></p>
17	Attachment D, IV.A. Table D-5	<p><i>Summary of effluent limitations in the information sheet will match the effluent limitations in the Order.</i></p>
18	Attachment E,	<p>CC. Recycled water must be applied in amounts and rates as needed for the landscape (i.e., at agronomic rates and not when the soil is saturated). <u>Application of recycled water to the use area shall be at reasonable agronomic rates and shall consider soil, climate, and nutrient demand. The description of agronomic application compliance shall be included in the Quarterly Recycled Water Summary (Monitoring and Reporting Program, Attachment C, V.B.).</u></p> <p>DD. Fertilizers must be applied in amounts and rates that take into account the nutrient levels in the recycled water. <u>The seasonal nutritive loading of the use area including the nutritive value of organic and chemical fertilizers and of the recycled water, shall not exceed the nutritive demand of the landscape.</u> The Discharger shall communicate to the users the nutrient levels in the recycled water.</p> <p>EE. <u>The recycled water irrigation users shall report the volume of recycled water, total number of use areas in each basin, total area of application, nitrogen application rate, and salinity application rate.</u></p>